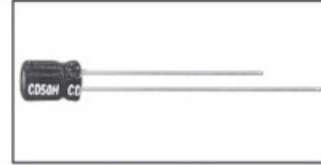


# CD50H Radial Leads Aluminum Electrolytic Capacitors

- 5mm高度, 105°C 5mm height, 105°C
- 适用于移动通讯、袖珍对讲机、汽车音响等电路  
Used in locomotive communication, pocked intercom telephone and car audio circuits, etc.

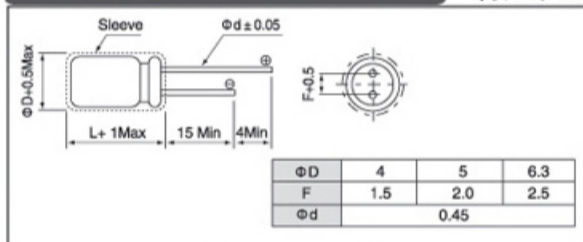


## 主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																								
使用温度范围 Operating temperature rang	-40°C~+105°C																								
额定电压范围 Rated voltage range	4V~50V																								
标称电容范围 Nominal capacitance range	0.1~100 μF																								
标称电容允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)																								
漏电流 Leakage Current	$I \leq 0.01CV$ or 或 $3(\mu A)$ 2分钟 (2 minute) 取较大者 (Whichever is greater)																								
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th><math>U_n(V)</math></th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.35</td> <td>0.25</td> <td>0.22</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	$U_n(V)$	4	6.3	10	16	25	35	50	tg δ	0.35	0.25	0.22	0.18	0.14	0.12	0.10								
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温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th><math>U_n(V)</math></th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C / Z+20°C</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	$U_n(V)$	4	6.3	10	16	25	35	50	Z-25°C / Z+20°C	7	4	3	2	2	2	2	Z-40°C / Z+20°C	15	10	8	6	4	3	3
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Z-40°C / Z+20°C	15	10	8	6	4	3	3																		
耐久性 Load life	+105°C加额定电压1000小时, 恢复16小时后: After applying rated voltage for 1000 hours at +105°C and then resumed 16 hours: 电容量变化率 Capacitance change : ±20% (4V: ≤ ±30%) 初始测量值以内 Initial measured value 漏电流 Leakage current : ≤ 初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤ 2倍初始规定值 Initial specified value																								
高温贮存 Shelf life	+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C, and then resumed 16 hours: 电容量变化率 Capacitance change : ±20% (4V: ≤ ±30%) 初始测量值以内 Initial measured value 漏电流 Leakage current : ≤ 2倍初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤ 2倍初始规定值 Initial specified value																								

## 外形图及尺寸表 Case size table

单位Unit: mm



## 纹波电流修正系数 Multiplier for ripple current

### 频率系数 Frequency coefficient

电压Rated Voltage(V)	50,60	120	1k	10k-100k
4-16	0.64	0.80	0.92	1.0
25-35	0.57	0.71	0.89	1.0
50	0.53	0.67	0.85	1.0

### 温度系数 Temperature coefficient

温度 Temperature(°C)	+70 or less	+85	+105
系数 Factor	2.10	1.80	1

## 额定值标准 Standard rating

ΦD × L(mm)

容量Cn (μF)	代码 Code	电压Un							ΦD × L(mm)		
		4V	6.3V	10V	16V	25V	35V	50V			
0.1	0R1									4 × 5	1.0
0.22	R22									4 × 5	2.6
0.33	R33									4 × 5	3.2
0.47	R47									4 × 5	3.8
1	010									4 × 5	6.2
2.2	2R2									4 × 5	11
3.3	3R3									4 × 5	14
4.7	4R7							4 × 5	13	4 × 5	15
10	100			4 × 5	15	4 × 5	18	5 × 5	23	5 × 5	25
22	220	4 × 5	22	4 × 5	22	5 × 5	27	5 × 5	30	6 × 5	38
33	330	5 × 5	30	5 × 5	30	5 × 5	35	6 × 5	40	6 × 5	48
47	470	5 × 5	36	5 × 5	36	6 × 5	46	6 × 5	50		
100	101	6 × 5	60	6 × 5	60						

额定纹波电流 Rated ripple current (mA, +105°C, 100KHz)